

International Journal of Primatology

The Official Journal of the International Primatological Society

Volume 3, 1982

International Journal of Primatology is a multidisciplinary journal devoted to basic primatology, i.e., to studies in which the primate is treated as such. To this end, the journal brings together laboratory and field studies from such diverse disciplines as anatomy, anthropology, ethology, paleontology, psychology, sociology, and zoology. The journal publishes high-quality original articles, short articles, and reviews that have been carefully refereed by experts in the field, and also publishes book reviews. The journal aims to provide a forum for research workers and students in the field of fundamental primatology and to expedite communication between them and other scientists interested in nonhuman primates per se.

MANAGING EDITORS

John A. Doyle
State Behaviour Research Group
University of the Witwatersrand
Johannesburg, South Africa

Matt Cartmill
Department of Anatomy
Duke University Medical Center
Durham, North Carolina

EDITORIAL COMMITTEE

John A. S. Bernstein, University of Georgia, Athens, Georgia
Stephen Gartlan, University of Wisconsin, Madison, Wisconsin
John B. Martin, University College, London, England
William A. Mason, University of California, Davis, California
John M. Schrier, Brown University, Providence, Rhode Island

EDITORIAL BOARD

John F. Bielert, University of the Witwatersrand, Johannesburg, South Africa
John A. Chalmers, The Open University, Milton Keynes, England
Charles-Dominique, Muséum National d'Histoire Naturelle, Brunoy, France
John J. Chivers, University of Cambridge, Cambridge, England
John L. Clutton-Brock, University of Cambridge, Cambridge, England
John H. Crook, University of Bristol, Bristol, England
John I. Day, St. Thomas's Hospital Medical School, London, England
John M. de Boer, Royal Rotterdam Zoological and Botanical Gardens, Rotterdam, The Netherlands
John J. Dolhinow, University of California, Berkeley, California
Richard Dukelow, Michigan State University, East Lansing, Michigan
John Jozcue, Universidad Autonoma de Barcelona, Barcelona, Spain
John A. Epple, University of Pennsylvania, Philadelphia, Pennsylvania
John G. Hendrickx, University of California, Davis, California
John D. Hewett-Emmett, University of Michigan, Ann Arbor, Michigan
John I. Hladik, Muséum National d'Histoire Naturelle, Brunoy, France
John Hoffstetter, Muséum National d'Histoire Naturelle, Paris, France
John K. Ichioka, Kyoto University, Kyoto, Japan
John J. Jolly, New York University, New York, New York
John F. Kay, Duke University Medical Center, Durham, North Carolina
John Anand Kumar, All India Institute of Medical Sciences, New Delhi, India
John Patrick Luckett, University of Puerto Rico, San Juan, Puerto Rico
John J. Preuschoft, Ruhr Universität Bochum, Bochum-Querenburg, West Germany
John A. Rosenblum, State University of New York Downstate Medical Center, Brooklyn, New York
John A. Rowell, University of California, Berkeley, California
John M. Rumbaugh, Georgia State University, Atlanta, Georgia
John J. Sackett, University of Washington, Seattle, Washington
John E. Schwartz, University of Pittsburgh, Pittsburgh, Pennsylvania
John A. Smith, University of Washington, Seattle, Washington
John R. Snyder, Yale University School of Medicine, New Haven, Connecticut
John W. Sussman, Washington University, St. Louis, Missouri
John Fattersall, The American Museum of Natural History, New York, New York
John H. Tuttle, The University of Chicago, Chicago, Illinois
John A. Zihlman, University of California, Santa Cruz, California

International Journal of Primatology is published quarterly by Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013. Subscription orders should be addressed to the publisher. *International Journal of Primatology* is abstracted or indexed in Chemical Abstracts, Current Contents and Referativnyi Zhurnal. © 1982 Plenum Publishing Corporation. *International Journal of Primatology* participates in the program of Copyright Clearance Center, Inc. The appearance of a code line at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use. However, this consent is given on the condition that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc. for all copying not explicitly permitted by Sections 107 or 108 of the Copyright Law. It does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, nor to the reprinting of figures, tables, and excerpts.

Subscription Rates:
Volume 3, 1982 (4 issues) \$40.00 (outside the U.S., \$46.00).
Volume 4, 1983 (4 issues) \$50.00 (outside the U.S., \$57.00).

Printed in the USA.

International Journal of Primatology is published quarterly by Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013. Subscription orders should be addressed to the publisher. *International Journal of Primatology* is abstracted or indexed in Chemical Abstracts, Current Contents and Referativnyi Zhurnal. ©1982 Plenum Publishing Corporation. *International Journal of Primatology* participates in the program of Copyright Clearance Center, Inc. The appearance of a code line at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use. However, this consent is given on the condition that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc. for all copying not explicitly permitted by Sections 107 or 108 of the Copyright Law. It does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, nor to the reprinting of figures, tables, and text excerpts.

International Journal of Primatology

Vol. 3, No. 1

(published June 14, 1982)

March 1982

CONTENTS

Behavioral Ecology of <i>Alouatta seniculus</i> in Andean Cloud Forest <i>Steven J. C. Gaulin and Cynthia K. Gaulin</i>	1
The Ecology of Singing in Kloss Gibbons (<i>Hylobates klossii</i>) on Siberut Island, Indonesia <i>Anthony J. Whitten</i>	33
Patterns and Determinants of Monkey Densities in Peru and Bolivia, with Notes on Distributions <i>Curtis H. Freese, Paul G. Heltne, Napoleon Castro R., and George Whitesides</i>	53
The Influence of Behavioral Context and Social Characteristics on the Physical Aspects of Social Grooming in Rhesus Monkeys <i>Maria L. Boccia, Brahm Rockwood, and Melinda A. Novak</i>	91
Book Review: <i>Catalogue of Primates in the British Museum (Natural History) and Elsewhere in the British Isles. Part II: Family Cercopithecidae, Subfamily Cercopithecinae</i>	109

International Journal of Primatology

Vol. 3, No. 2

(published June 30, 1982)

June 1982

CONTENTS

<i>Sivapithecus simonsi</i> , a New Species of Miocene Hominoid, with Comments on the Phylogenetic Status of the Ramapithecinae <i>Richard F. Kay</i>	113
Agonistic Dominance in Male Baboons: An Alternative View <i>S. C. Strum</i>	175
Adult Male Replacement in <i>Macaca fascicularis</i> of East Kalimantan, Indonesia <i>Bruce P. Wheatley</i>	203
Sexual Behavior in Aging Male Rhesus Macaques: Effects of Test Duration on Sexual Performance <i>Charles H. Phoenix and Kathleen C. Chambers</i>	221
Book Review: <i>Evolutionary Biology of the New World Monkeys and Continental Drift</i>	231

CONTENTS

SPECIAL ISSUE: Abstracts of the IXth Congress of the
International Primatological Society

Symposia and Workshops (<i>Abstracts 0001 to 0031</i>)	239
Paper and Poster Sessions (<i>Abstracts 0032 to 0318</i>)	255
Film and Videotape Sessions (<i>Abstracts 0319 to 0326</i>)	353
AUTHOR INDEX	357

CONTENTS

Wide-Ranging Chimpanzees at Mt. Assirik, Senegal <i>P. J. Baldwin, W. C. McGrew, and C. E. G. Tutin</i>	367
Correlates of Sexual Dimorphism in Primates: Ecological and Size Variables <i>Walter Leutenegger and James Cheverud</i>	387
Feeding Behavior of Yellow Baboons (<i>Papio cynocephalus</i>) in the Amboseli National Park, Kenya <i>David G. Post</i>	403
Endocrinology of Pregnancy in the Orang-Utan (<i>Pongo pygmaeus</i>) and its Evolutionary Significance <i>R. C. Bonney and S. Kingsley</i>	431
Preliminary Observations of the Mentawai Macaque on Siberut Island, Indonesia <i>Anthony J. Whitten and Jane E. J. Whitten</i>	445
A Test of the Randomness of Paternity of Members of Maternal Sibships in Six Captive Groups of Rhesus Monkeys (<i>Macaca mulatta</i>) <i>David Glenn Smith</i>	461
Hominid and Gelada Baboon Evolution: Agreement Between Molecular and Fossil Time Scales <i>John E. Cronin and W. E. Meikle</i>	469
Seasonal Rank Changes for Adolescent and Subadult Natal Males in a Free-Ranging Group of Rhesus Monkeys <i>Barbara L. Tilford</i>	483
Effects of Inbreeding on Infant Mortality in Captive Primates <i>Katherine Ralls and Jonathan Ballou</i>	491
Book Review: <i>Beach Troop of the Gombe</i>	507
Book Review: <i>Auditory Regions of Primates and Eutherian Insectivores</i>	509
Erratum	515
Announcement	517
